



KaiCong IP Camera Sip1211 Manual

KaiCong Electronic Technology Co.,LTD

KaiCong IP Camera Manual two-dimensional code



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Statement

Thank you for using our IP camera products. The IP camera designed for network video surveillance, adopted high performance and powerful single SOC chip media processor to integrate audio and video capture, compression and transmission. Standard H.264 Main Profile coding algorithm ensures clearer and smoother video transmission effect. Built-in Web Server allows users to easily perform real-time monitoring and remote control over front-end cameras via IE browser.

The IP cameras is suitable for small and medium-sized enterprises, families, and other environments that require remote network video transmission and monitoring. It is easy to be installed and operated.

Before installation, please check the product and all accessories. If anything is missing, please contact your supplier in time.

Package Contents:

1 IP Camera	X1
2 Power Adapter (refer to camera model)	X1
3 User Manual	X1
4 WIFI Antenna (for wireless model)	X1
5 Network Cable	X1

NOTE:

Contents in this manual may be different from the edition that you are using. Should any unsolved problem occur given that the product is used according to this manual, please contact our technical support department or your product suppliers.

The content of this manual may be updated at irregular intervals without prior notice.

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1. INTRODUCTION

1.1. General Description

This is a minitype camera with elegant and beautiful shape, built-in Web server, open application interface and industrial grade stable performance, makes the industrial network transmission safety, quickly, simple operation, easy control. It integrates audio and image information, perform real-time monitoring synchronously through the network, to achieve real-time monitoring audio and image via a standard Web browser.

1.2. Characteristic

Easy to Install

Just inserting the network cable to the RJ45 interface of the camera, inputting the camera's IP address through Microsoft IE, Mozilla Firefox, Google Chrome or other standard browsers, then using it.

High Quality Image

The camera adopt H.264 video compression, with clear picture, the maximum speed up to 30 frames/second via 10M/100M network real-time transfer.

Open Standard Environment

Support TCP/IP network, support HTTP DNS DHCP PPPoE SMTP FTP SSL TFTP NTP ARP/RARP NFS RTSP RTP RTCP protocols and Dynamic IP(DDNS). Support up to 10 users online simultaneously.

Advanced Extended Function

Connect home appliances and panalarm via GPIO interface to achieve I/O alarm input and output functions.

Simple Management Mode

Using standard web browser, to configure and manage the camera, upgrade the software online directly.

Safety Performance Guarantee

Multi-level users management and passwords definition, the administrator can set different access permission to different level visitors.

Extensive Range Application

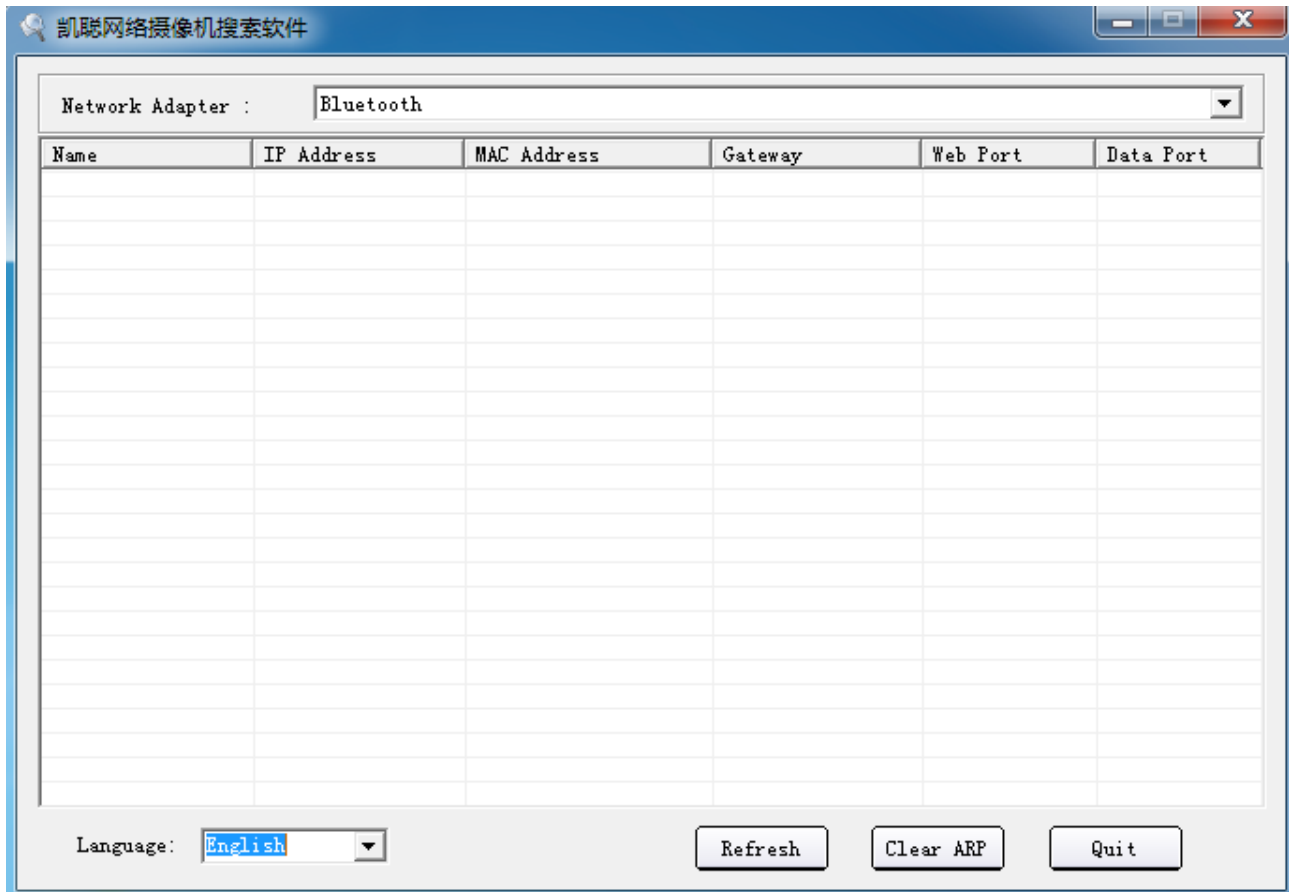
Real-time video is transferred by internet, which can't be compared by traditional video surveillance system. Users can view and remote control the real time image at anytime, anywhere via network. The camera can be widely used such as product demonstrations, real-time monitoring, real-time recording and taking. It can also be at the scheduled time or event occurs, send pictures to the specified E-Mail, FTP server timely.

1.3. Specification

Image Sensor	Image Sensor	1/4" Color CMOS Sensor
	Lens	f: 6 mm, F:2.0 (IR Lens) (3.6mm lens optional)
	Mini. Illumination	0.5Lux
Audio	Input	Built-in Microphone/1 channel audio input
	Output	1 channel audio output
	Audio Compression	ADPCM
Video	Image Compression	H.264, MJPEG
	Image Frame Rate	30fps
	Resolution	1280 x 720(30fps), 640 x 368(30fps), 320x208(30fps)
	Flip Mirror Images	Vertical / Horizontal
	Light Frequency	50Hz, 60Hz, Outdoor
	Video Parameters	Brightness, Saturation, Contrast, Hue
Communication	Ethernet Interface	Build in 10/100Mbps,Auto MDI/MDIX , RJ-45
	Supported Protocol	TCP/IP HTTP DNS DHCP PPPoE SMTP FTP SSL TFTP NTP ARP/RARP NFS RTSP RTP RTCP.
	Compress rate level	128Kbps~16Mbps
	Wireless Standard	IEEE 802.11b/g/n
	Data Rate	802.11b: 11Mbps (Max.), 802.11g: 54Mbps (Max.), 802.11n: 150Mbps (Max.),
	Wireless Security	WEP & WPA WPA2 Encryption
Physical	Pan/Tilt Angle	Horizontal:320° & Vertical: 120°
	Alarm Input	1Channel on/off Input
	Alarm Output	1 Channel relay Output
Power	Power Supply	DC 5V/2.0A (EU,US,AU adapter or other types optional)
	Power Consumption	7 Watts (refer to specific product model)
Environment	Operate Temper	0° ~ 55°C (14°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temper	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
PC System	CPU	2.0GHZ or above (suggested 3.0GHZ)
	Memory Size	256MB or above (suggested 1.0GHZ)
	Memory Size	64M or above

Requirements	Supported OS	Microsoft Windows 2000/XP/Vista/7
	Browser	IE6.0/7.0/8.0/Firefox/Safari/Google chrome or other standard browsers

Search tool: <http://www.KaiCong.net/fusheng/SearchIPCam.rar>



2. INSTALLATION AND SETTINGS

System Requirement:

Operating System: Windows 2000 / XP / Vista / 7

Network Protocol: TCP/IP

Network Structure: Applies to all network connections 10/100M LAN platform

Browser: Internet Explore 6.0 or above.

2.1. Network Connection

Intranet and Extranet Connection Reference:

Extranet means public IP, Intranet means private IP. If your IP belongs to the follow range, then it's a private IP :

Category A: 10.0.0.0 - 10.255.255.255

Category B: 172.16.0.0 - 172.31.255.255

Category C: 192.168.0.0 - 192.168.255.255

Intranet Connection: IP camera and user's computer(device) should be under the same network environment, and both of their IP should be under the same subnet, then means correct connection, picture as below:

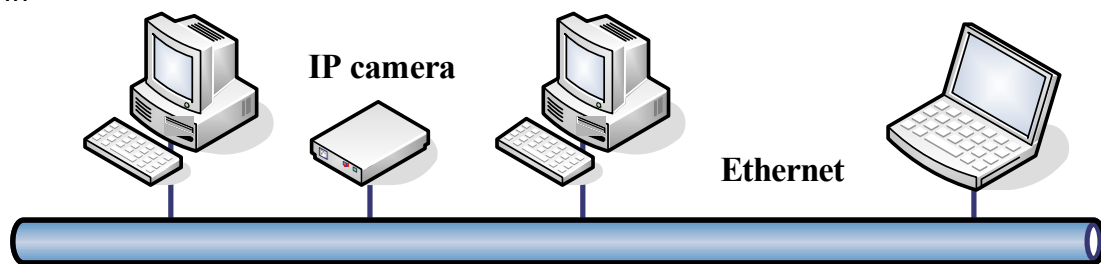


Figure1.0

Extranet Connection: there are 2 ways as below:

(1). IP camera connect to the Internet via router, here camera's IP is a private IP, clients need to connect to IP camera through a router, with forwarding rule to be connected correctly, as below:

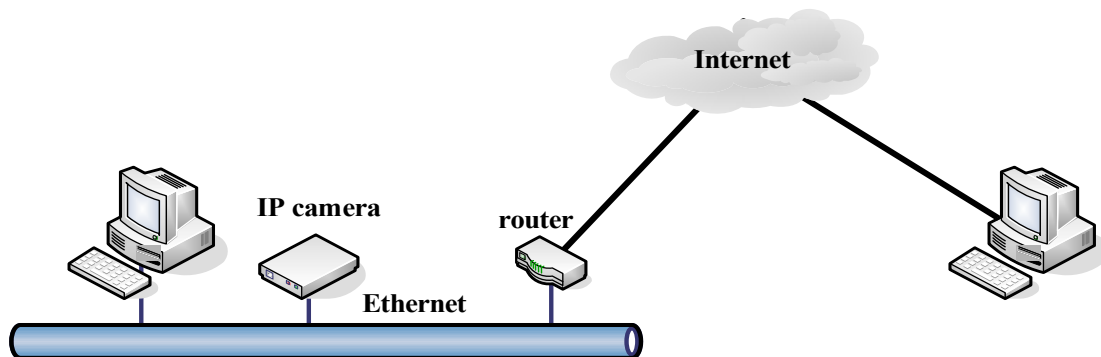


Figure1.1

(2). IP camera connect to the Internet directly, if it's a fixed IP which provided by ISP, just input it. If it's a floating IP, then input the account and password which provided by ISP to dial-up connection.

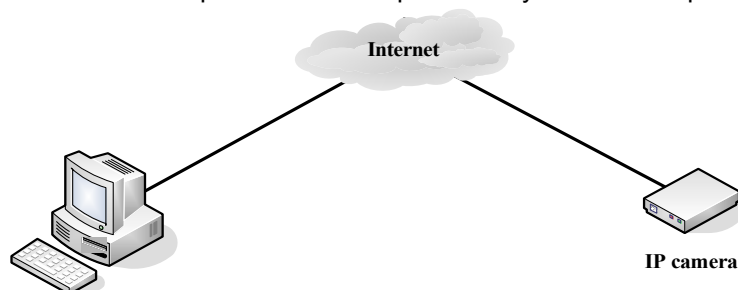


Figure1.2

2.2. UPnP Service

UPnP could help you to find your camera's IP more faster. For Window XP, from **"Control Panel"** > **"Add or remove applications"** > **"Add or remove Windows component"** > **"Network service"** > **"Detailed data"** > **"UPnP users interface"**, enable it, factory settings is disable. Then it can allow your operating system to support UPnP.

2.3. Login the Camera

The default IP address for each camera is 192.168.1.155. Users can run the browser, input the IP address directly to login the camera.

NOTE: If the IP segment of the computer is different with the camera, such as 192.168.0.xx, please change the IP segment of the computer's to the same as camera's firstly, such as 192.168.1.xx, then connect the IP Camera to the computer via network cable directly, run the browser, input the IP address and login, will pop-up the interface:

Figure1.3

3. SOFTWARE OPERATION (FOR CHROME FIREFOX SAFARI)

Choose the suitable language, input correct user name and password, then click “Login”

For example, if the factory default settings as below:

IP Address: 192.168.1.155

User name: admin **Password:** 123456

The screenshot shows a login form with the following elements and annotations:

- Language:** A dropdown menu set to "English", with a red box and arrow labeled "1".
- User:** A text input field containing "admin", with a red box and arrow labeled "2".
- Password:** A text input field with masked characters "*****", with a red box and arrow labeled "2".
- Mode:** A dropdown menu set to "QuickTime", with a red box and arrow labeled "3".
- Login:** A button, with a red box and arrow labeled "4".
- Mobile Phone:** An unchecked checkbox.

Below the form, a "Prompt:" section lists instructions:

1. Case sensitive.
2. Mobile Phone (For Browser that supports Javascript).
3. Please download and complete the installation of Plug-in if your first sign in or sign in does not properly display video.

A close-up of the "Mode" dropdown menu showing three options: "QuickTime", "QuickTime", and "VLC". The "VLC" option is highlighted with a red box.

Figure1.4

: Choose the login mode.

QuickTime: Choose QuickTime, login the camera directly. If there is a prompt for installing the QuickTime player, just download and install it.

VLC: If use VLC, should download the VLC player firstly.

During the VLC installation, please must enable Mozilla plugin as the picture shown below:

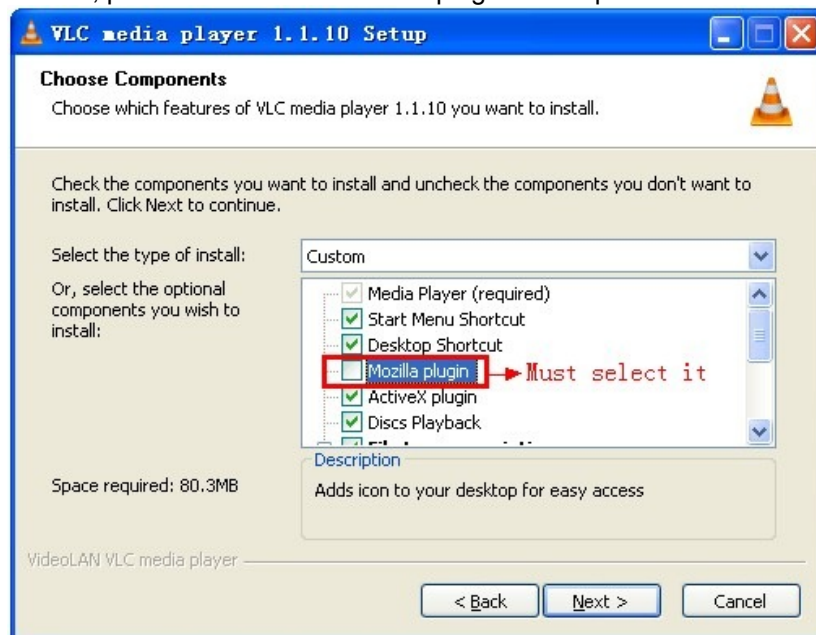


Figure1.5

Language: English : Choose languages here

☐ Mobile Phone : For mobile phone login

Login

: Click to login the IE interface as below:

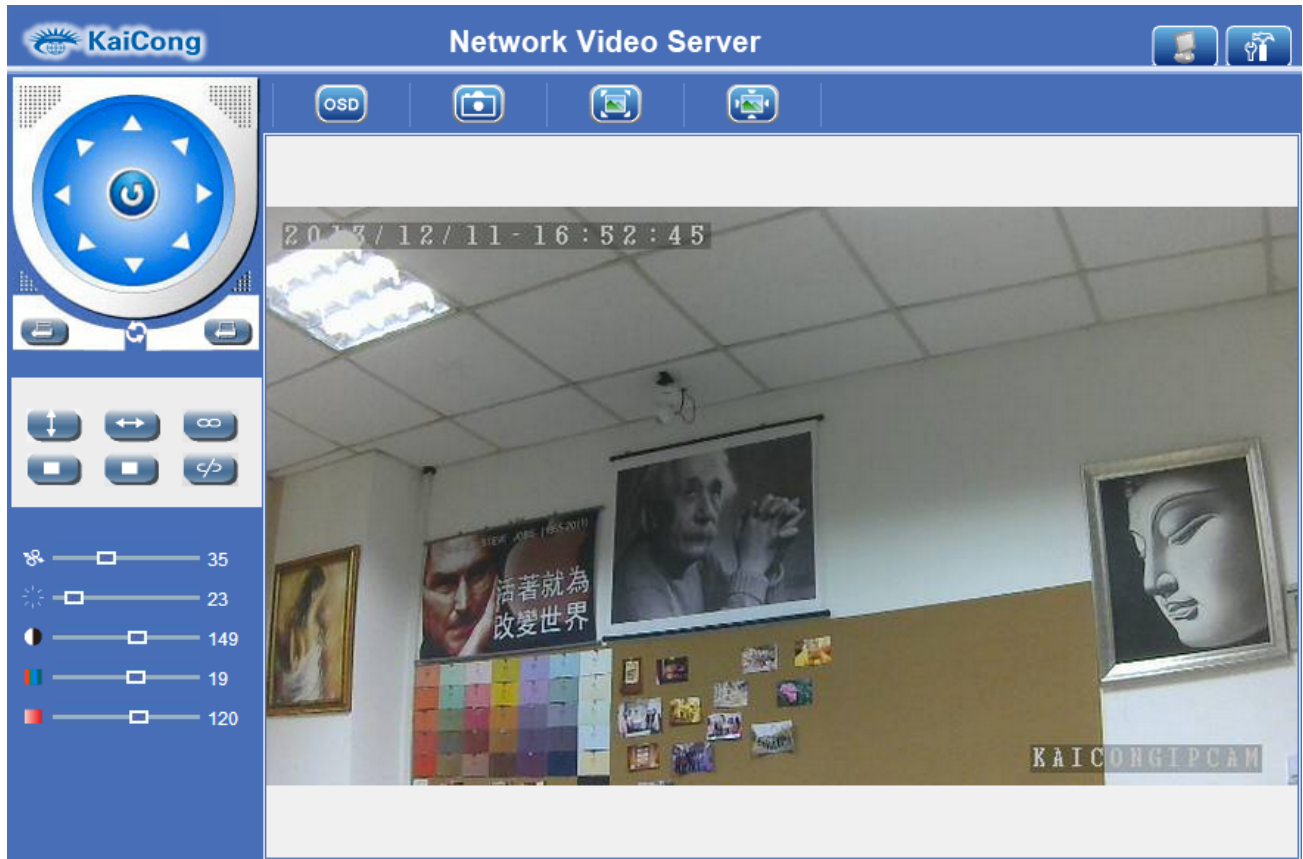


Figure1.6

3.1. Two main functions:



Figure1.7



Live video: Click it, back to live video window from “**Playback**” or “**Params settings**”



Params Settings: Setting the camera's parameters(Details see 4 Params settings)

3.2. For Live Video

3.2.1 TOP Menu For QuickTime Mode:



Figure1.8



Capture: Click to take snapshot, the picture be saved in the PC to it's appointed path as JPG format, will pop-up the snapshot, right click the picture to save it.



OSD Settings: Click it will pop-up the OSD settings interface, including OSD Color, Frequency, Image Mirror and Flip.

OSD	Green ▼
Mirror	<input type="checkbox"/>
Flip	<input type="checkbox"/>
Frequency	50HZ ▼

Figure1.9

OSD: Means “On-Screen Display”

OSD Color: Including Disabled, Black, Red, Green, Blue, Purple, Gray, Silver, Yellow, Olive, Turquoise, White, Light Blue etc.

OSD	Green ▼
Mirror	<input type="checkbox"/>
Flip	<input type="checkbox"/>
Frequency	50HZ ▼

Green
 Disabled
 Black
 Red
 Green
 Blue
 Purple
 Gray
 Silver
 Yellow
 Olive
 Turquoise
 White
 Light Blue

Figure2.0

Frequency: Including 50HZ, 60HZ, Outdoor.

50HZ/60HZ for the users who use 50HZ/60HZ frequency, outdoor for the users who want to use this camera to monitor the outdoor environment

NOTE: This camera normally should be used in a indoor environment

Frequency	50HZ ▼
-----------	--------

50HZ
 60HZ
 Outdoor

Figure2.1

Mirror and Flip

Mirror: Select this icon to see the mirror image. Erase it, will back to normal.

Flip: Select this icon to see the reversal image. Erase it, will back to normal.



Figure2.2

NOTE: You can choose Mirror and Flip function when you set up the camera in a special position.

3.2.2 Top Menu For VLC Mode:



Figure2.3



Adaptive size of the display. Click it, will get adaptive size



The true size of the display. Click it, will back to the true size.



Capture: Click to take snapshot, the picture be saved in the PC to it's appointed path as JPG format, will pop-up the snapshot, right click the picture to save it.



OSD Settings: Click it will pop-up the OSD settings interface, including OSD Color, Frequency, Image Mirror and Flip.

3.2.3 Left Side Menu:

There are some basic operation icons listed on the left side menu as below:



Figure2.4

PT Control: Set Pan/Tilt as upward, downward, leftward, rightward, upleft, downleft, upright, downright etc directions. (PT and Cruise only available for the models support Pan/Tilt.)



Center: Click this icon, the camera will pan/tilt, then stop at the center. Normally it will rotate 1 circle



Up: Click this icon, camera will move up, you can click one by one or hold it to control the movement







Down: Click this icon, camera will move down, click it step by step or hold on to control the movement

NOTE: It is the same operation as left, right, up-left, up-right, down-left, down-right etc.



Figure2.5

 **Set Preset:** It supports 9 preset positions. Firstly, control the camera rotate to the special position you need to set, click **Set Preset** button , it will pop-up a dialog frame(Figure 2.5), choose the any number (1-9) you want to set it be, then it done.

 **Call Preset:** It supports 9 preset positions. If operator wants to monitor an important area quickly and precisely, just click **Call Preset Position** button , it will pop-up a dialog frame(Figure 2.5), choose the number, then camera will rotate to the preset area automatically.
If you want to use **Call Preset**, you have to **Set Preset** firstly.

NOTE: Set different positions with a same number, camera will record the last position setting only




Cruise: Preset cruise, camera can cruise according to the different presets set by users.



: Click this icon, camera will rotate up and down, means vertical patrol, click  to stop it



: Click this icon, camera will rotate left and right, means horizontal patrol, click  to stop it



: Click this icon, IO output Switch ON. Click  to set it OFF.

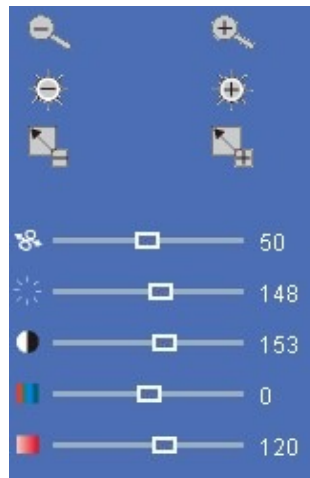


Figure2.6



PTZ speed: set value from 1 to 100, click the icon, it will back to factory settings.



Brightness: set value from 0 to 255, click the icon, it will back to factory settings.



Contrast: set value from 0 to 255, click the icon, it will back to factory settings.



Hue: set value from -128 to 127, click the icon, it will back to factory settings.



Saturation: set value from 0 to 200, click the icon, it will back to factory settings.



Zoom: Set zoom of the lens.




Iris: Set iris of the lens.



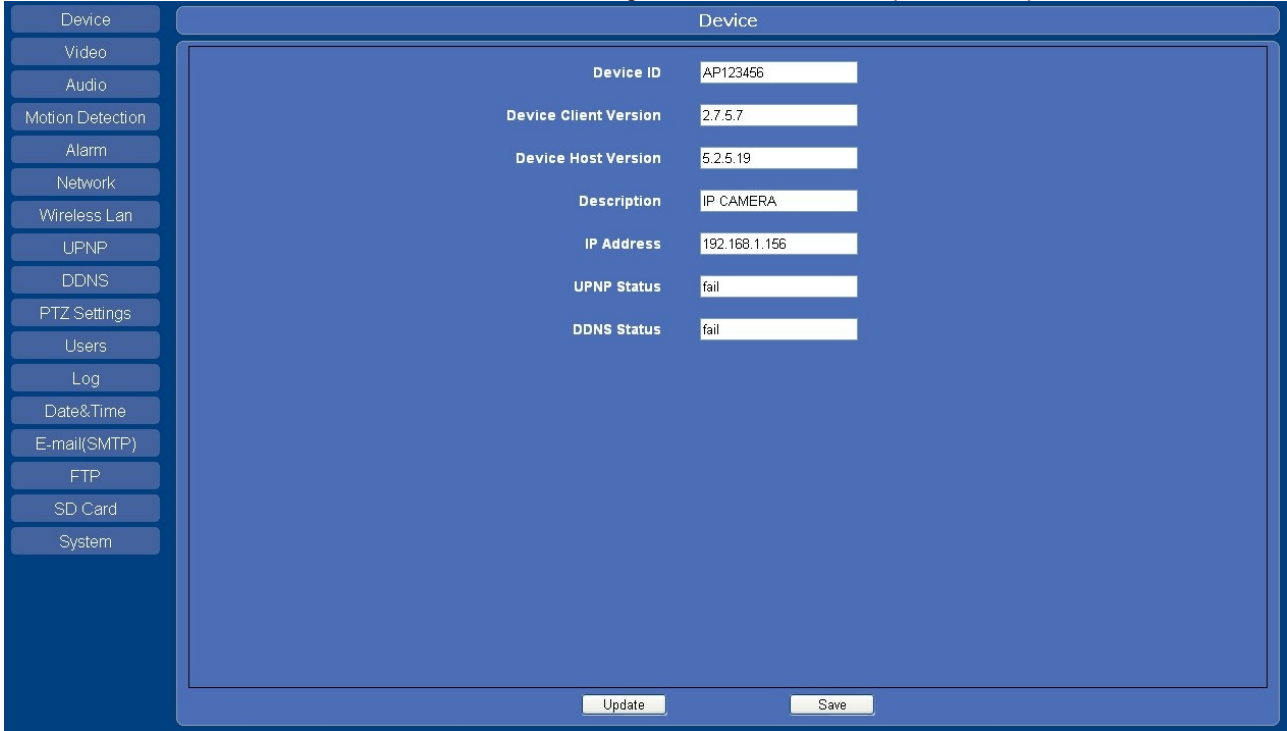
Focus: Set the focus of the lens.

4. PARAMS SETTINGS

4.1. Device

Click “**Params Settings**” icon , select “**Device**”, it will show the basic information such as “**Device ID**”, “**Device Client Version**”, “**Device Host Version**”, “**Description**”, “**IP Address**”, “**UPNP Status**”, “**DDNS Status**” etc.

Default device name is “**IP Camera**”, users can change the camera’s description here, picture as below:



Device	
Device ID	AP123456
Device Client Version	2.7.5.7
Device Host Version	5.2.5.19
Description	IP CAMERA
IP Address	192.168.1.156
UPNP Status	fail
DDNS Status	fail

Update Save

Figure2.7

4.2. Video

Click “**Video**” to enter the interface as below:

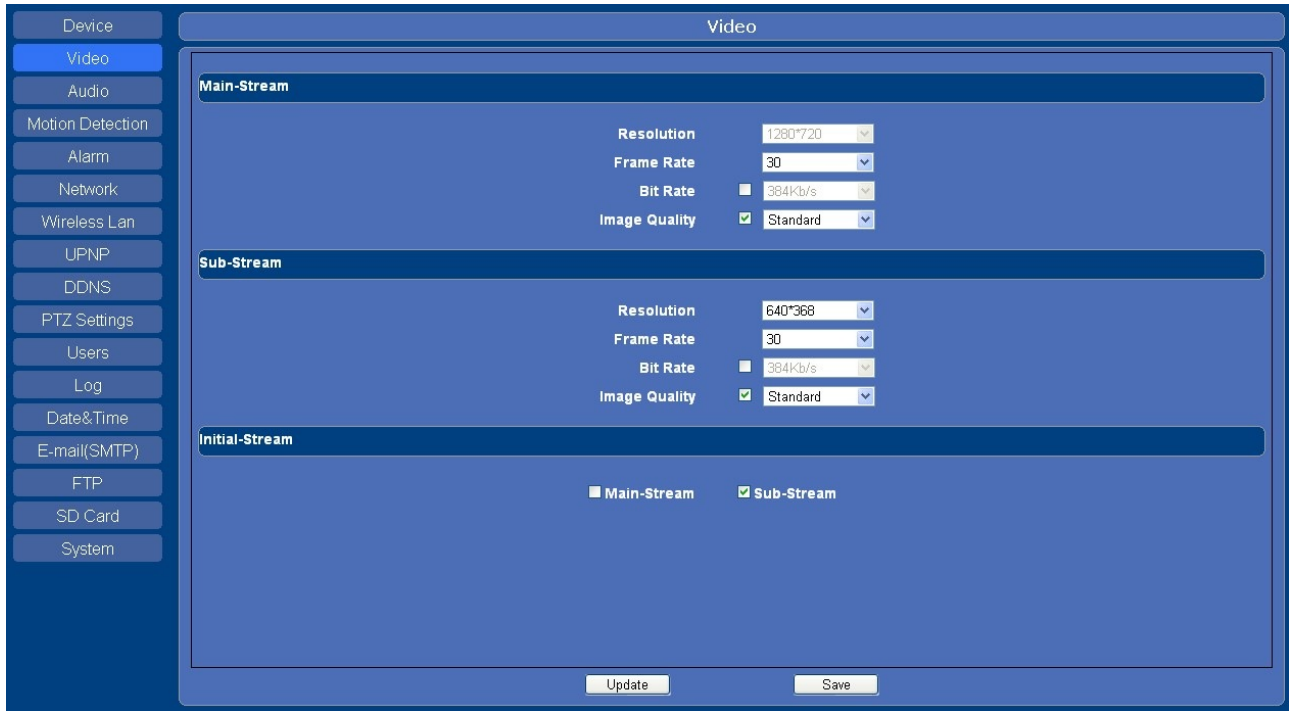


Figure2.8

There are two options for stream, **Main-Stream** and **Sub-Stream**, users can set the stream based on the actual operation environment, for example, if the band width is good enough, set Main-Stream as Initial-Stream, or choose Sub-Stream will be better.

Set the parameters of **Main-Stream** and **Sub-Stream** as below:

Resolution: 1280x720, 640x368, 320x208 optional.

Frame Rate: Set the frame rate according to the band width. Frame rate could be “**Auto**” or “**from 1fps to 30fps(Real time)**”. if the network situation is not ideal, can reduce the frame rate to control the coding rate, make the moving pictures more smoothly

Bit Rate: Higher bite rate means better quality images, but take more band width, so please adjust the settings according to the actual band width. The range of bit rate from 128Kbps~4Mbps.

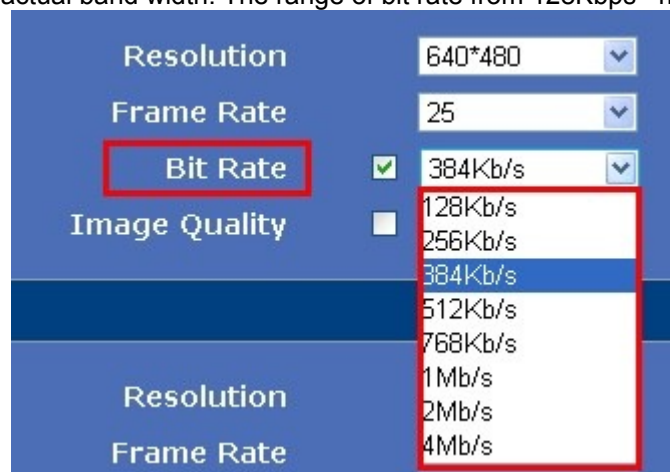


Figure2.9

Image Quality: Better image quality, higher bit rate value, and it will take more bandwidth, the image quality parameters could be set as below:



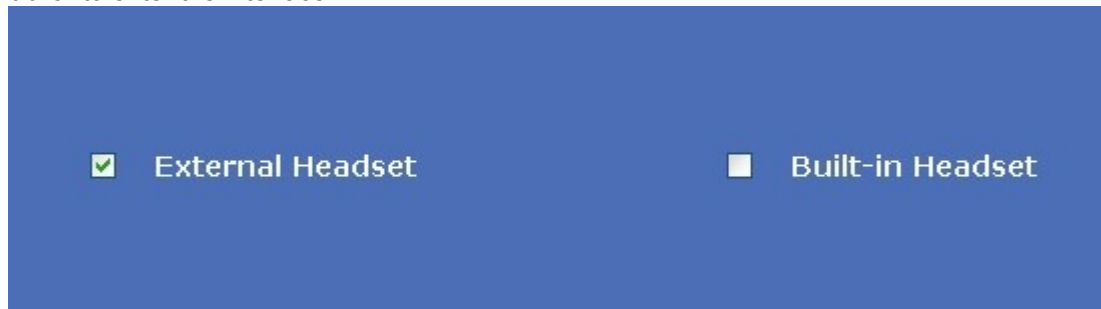
The screenshot shows a video settings interface with two sections. The top section has a blue background and contains: Resolution (640*480), Frame Rate (25), Bit Rate (checkbox, 384Kb/s), and Image Quality (checkbox, Medium). The bottom section has a white background and contains: Resolution, Frame Rate, and Bit Rate (checkbox). The 'Image Quality' dropdown menu is open, showing options: Worse, Soso, Not bad, Medium (highlighted), Standard, Good, Well, and Pretty good. Red boxes highlight the 'Image Quality' label and the dropdown menu.

Figure3.0

NOTE: When the device runs, only can select Bit Rate or Image Quality either.

4.3. Audio

Click “Audio” to enter the interface:



The screenshot shows the Audio settings interface with a blue background. It contains two options: External Headset (checkbox, checked) and Built-in Headset (checkbox, unchecked).

Figure3.1

Built-in headset: Choose built-in MIC as the audio input device.

External headset: Choose external headset as the audio input device.

4.4. Motion Detection

Click “**Motion Detection**” to enter the interface:

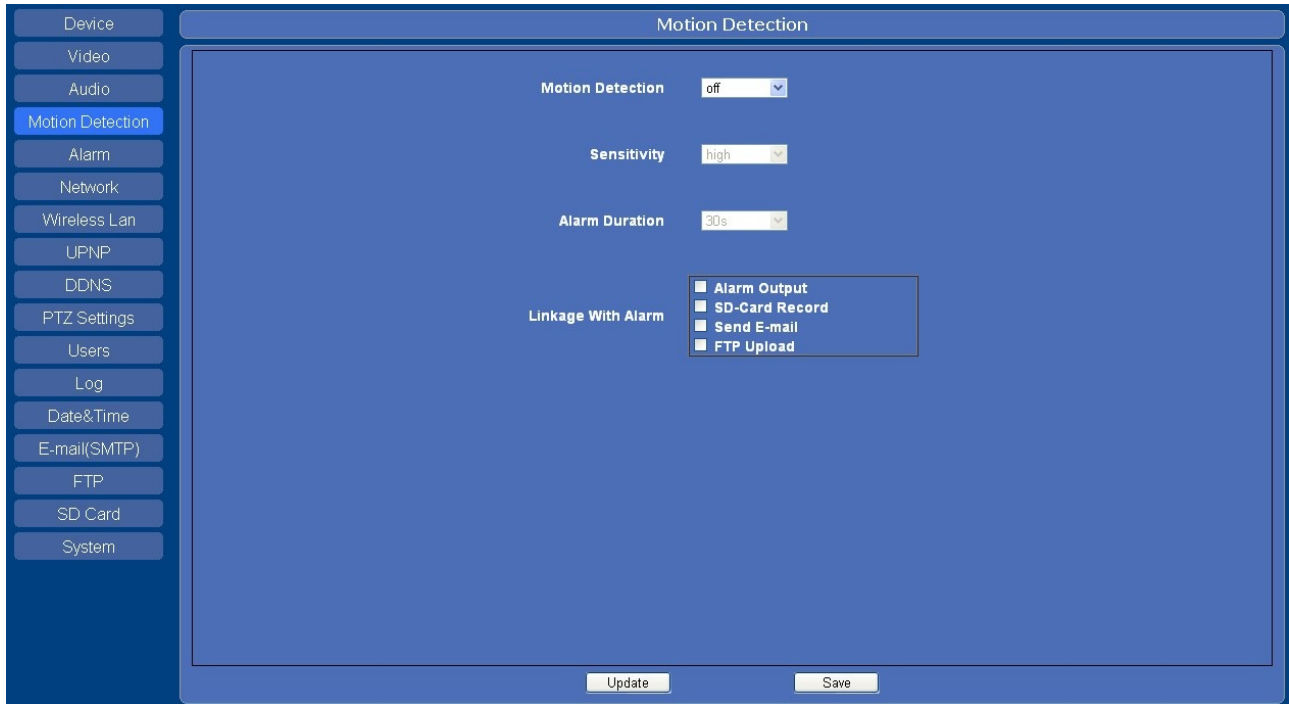


Figure3.2

- **Motion Detection:** Set motion detection armed function ON/OFF.



Figure3.3

- **Sensitivity:** Set detection sensitivity as Low, Middle, High, Higher, Highest.

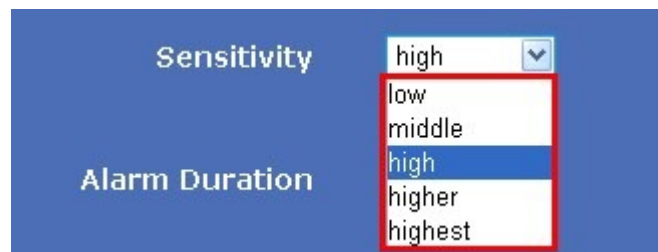


Figure3.4

- **Alarm Duration:** Set each alarm duration, can be Forever, 5s, 10s, 15s, 30s, 60s.



Figure3.5

Linkage with Alarm

These are actions optional for motion detection.



Figure3.6

- **Alarm output:** Select it to enable alarm output, unselect to stop.
- **SD-Card Record:** Select it to enable record in SD card, unselect to stop.
- **Send E-mail:** Select it to enable E-mail alert function, unselect to stop. (Mail service details see 4.14)
- **FTP Upload:** Select it to enable FTP upload function, unselect to stop. (FTP details see 4.15)

Click **Save** to save all the settings.

Click **Update** to refresh the settings.

4.5. Alarm

Click "Alarm" to enter the interface:

Figure 3.7 shows the main Alarm configuration interface. It includes the following settings:

- External Alarm:** Set to 'off'.
- Alarm Duration:** Set to '30s'.
- Lose SD-Card Alarm:** Set to 'off'.
- Alarm Input1:** Checked 'Enable Mode' with 'N.O.' mode.
- Alarm Input2:** Checked 'Enable Mode' with 'N.O.' mode.
- Linkage With Alarm:** A group of unchecked options: 'Alarm Output', 'SD-Card Record', 'Send E-mail', and 'FTP Upload'.

Figure3.7

- **External Alarm:** Set external alarm function ON/OFF.

Figure 3.8 is a close-up of the 'External Alarm' dropdown menu. The 'on' option is selected and highlighted with a red box.

Figure3.8

- **Alarm Duration:** Set external alarm output duration(Relay close time), can be Forever, 5s, 10s, 15s, 30s, 60s.

Figure 3.9 is a close-up of the 'Alarm Duration' dropdown menu. The '10s' option is selected and highlighted with a red box.

Figure3.9

- **Lose SD-Card Alarm:** Set alarm triggered ON/OFF if the SD-Card is lost.

Figure 4.0 is a close-up of the 'Lose SD-Card Alarm' dropdown menu. The 'on' option is selected and highlighted with a red box.

Figure4.0

- **Alarm Input:** Set alarm input ON/OFF, it supports NO/NC external alarm device, choose the correct mode to make sure it works well, it refers to the I/O pin6(Input2) and pin7(Input1).



Figure4.1

● Action with Alarm

These are actions optional for external alarm triggered..

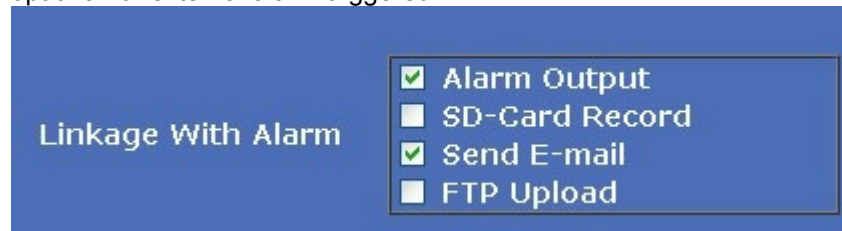


Figure4.2

Alarm output: Select it to enable alarm output, unselect to stop.

SD-Card Record: Select it to enable record in SD card, unselect to stop.

Send E-mail: Select it to enable E-mail alert function, unselect to stop. (Mail service details see 4.14)

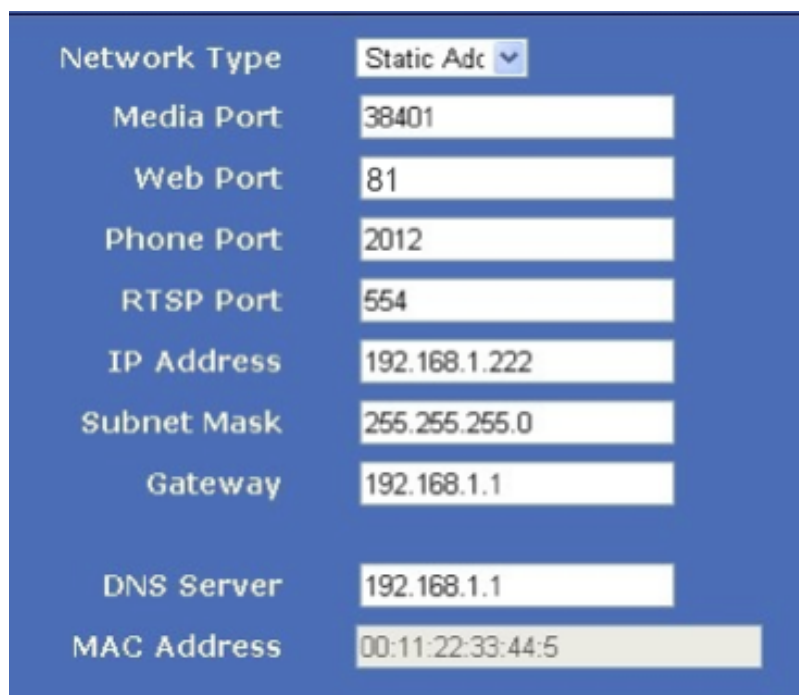
FTP Upload: Select it to enable FTP upload function, unselect to stop. (FTP details see 4.15)

Click **Save** to save all the settings.

Click **Update** to refresh the settings.

4.6. Network

Click "**Network**" to enter the interface:

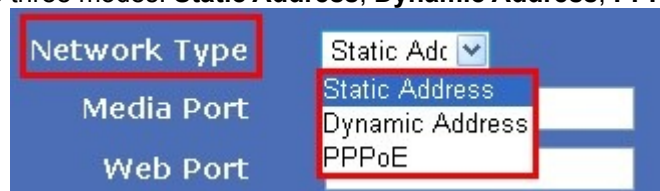


The image shows a network configuration interface with a blue background. It contains several input fields for network settings. The 'Network Type' is set to 'Static Adc' with a dropdown arrow. Below it are fields for 'Media Port' (38401), 'Web Port' (81), 'Phone Port' (2012), 'RTSP Port' (554), 'IP Address' (192.168.1.222), 'Subnet Mask' (255.255.255.0), 'Gateway' (192.168.1.1), 'DNS Server' (192.168.1.1), and 'MAC Address' (00:11:22:33:44:5).

Field	Value
Network Type	Static Adc
Media Port	38401
Web Port	81
Phone Port	2012
RTSP Port	554
IP Address	192.168.1.222
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS Server	192.168.1.1
MAC Address	00:11:22:33:44:5

Figure4.3

Network Type: There are three modes: **Static Address**, **Dynamic Address**, **PPPoE**.



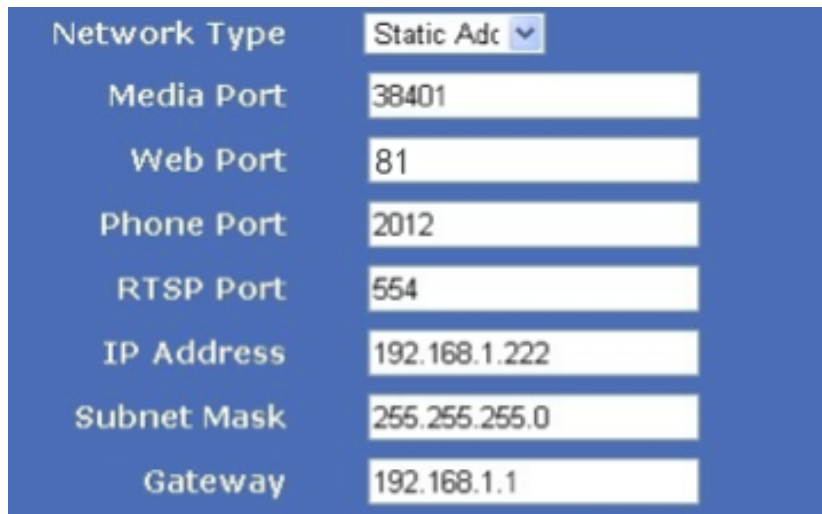
The image shows a close-up of the 'Network Type' dropdown menu. The menu is open, showing three options: 'Static Address', 'Dynamic Address', and 'PPPoE'. The 'Network Type' label is also highlighted with a red box.

Network Type
Static Address
Dynamic Address
PPPoE

Figure4.4

4.6.1 Static Address

Set network parameters manually



Network Type	Static Adc
Media Port	38401
Web Port	81
Phone Port	2012
RTSP Port	554
IP Address	192.168.1.222
Subnet Mask	255.255.255.0
Gateway	192.168.1.1

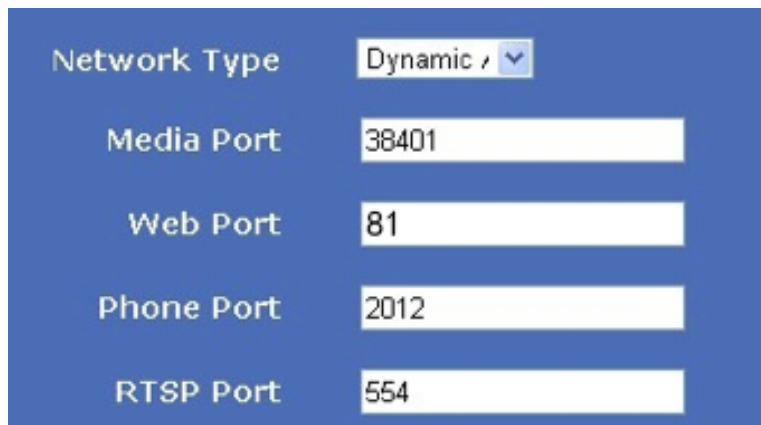
Figure4.5

- **Media Port:** Default is 38401.
- **Web Port:** Default is 80.
- **Phone Port:** Default is 2012.
- **RTSP Port:** Default is 554.
- **IP Address:** Set the IP address of camera.
- **Subnet Mark:** Default is 255.255.255.0.
- **Gateway:** Set the gateway of IP camera. If the camera connect to extranet via router, then the gateway is the router's IP.

NOTE: Please don't change the **Media Port**, **Web Port**, **Phone Port**, **RTSP Port** if no necessary.

4.6.2 Dynamic Address

Choose Dynamic Address, the camera will get IP address automatically.



Network Type	Dynamic
Media Port	38401
Web Port	81
Phone Port	2012
RTSP Port	554

Figure4.6

- **Media Port:** Default is 38401.
- **Web Port:** Default is 80.
- **Phone Port:** Default is 2012.
- **RTSP Port:** Default is 554.

NOTE: Please don't change the Media Port, Web Port, phone Port, RTSP Port if no necessary.

4.6.3 PPPoE

Set parameters here to enable PPPoE function.

Network Type	PPPoE ▼
Media Port	38401
Web Port	81
Phone Port	2012
RTSP Port	554
Enable PPPoE	close ▼
PPPoE User	abc
PPPoE Password	***
PPPoE IP Address	153.24.65.1

Figure4.7

- **Media Port:** Default is 38401.
 - **Web Port:** Default is 80.
 - **Phone Port:** Default is 2012.
 - **RTSP Port:** Default is 554.
 - **Enable PPPoE:** Choose Open to enable PPPoE function.
 - **PPPoE User:** The account provided by ISP
 - **PPPoE Password:** The password provided by ISP.
 - **PPPoE IP Address.** If PPPoE dial-up succeed, will display the IP address distributed by ISP.
- NOTE:** Please don't change the **Media Port**, **Web Port**, **Phone Port**, **RTSP Port** if no necessary.

DNS Server	192.168.1.1
MAC Address	00:11:22:33:44:5

Figure4.8

- **DNS Server:** Set DNS server
- **MAC Address:** MAC address of IP Camera.

If you don't know **Subnet Mask**, **Gateway**, **DNS Server**. Please check the Local Area Connection Status of your computer; it contains all these information, steps as below:

1. **Control Panel > Network Connections > Local Area Connections > Support > Details**
2. Find the local connection icon from taskbar, left click it, choose **Support > Details**

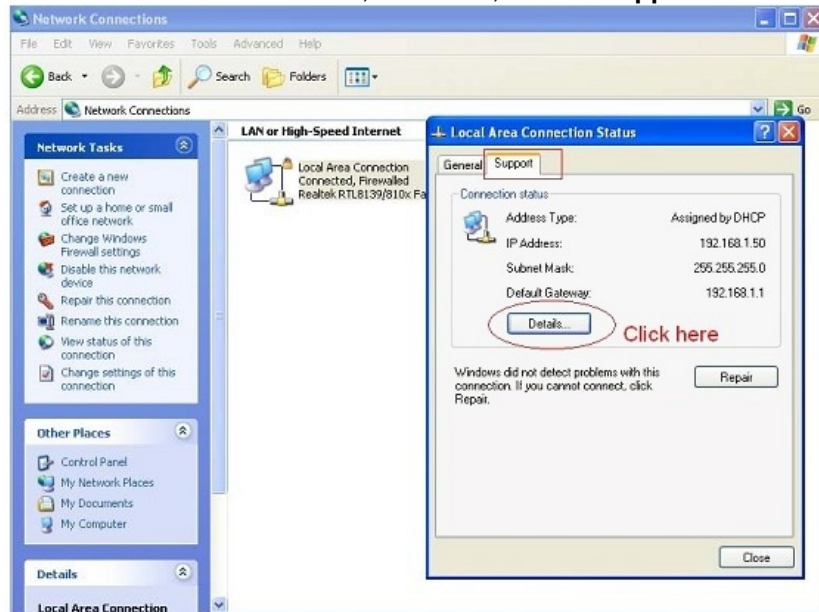


Figure4.9

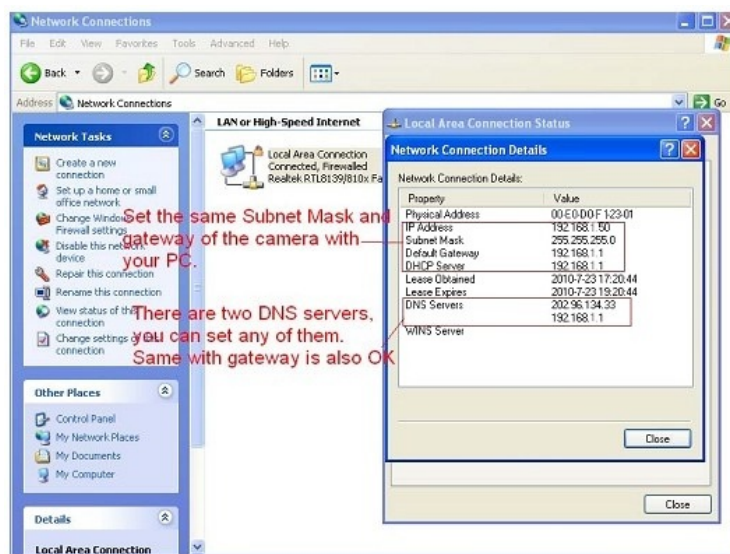


Figure5.0

If you don't know the DNS Server, you can set it the same as Gateway.

4.7. Wireless LAN

Click "Wireless LAN" to enter the interface:

The screenshot shows a web-based configuration interface for a wireless LAN. At the top, there is a list of detected networks: TRENDnet [infra null open-system], ace [infra tkip wpa-psk] (highlighted), TENDA [infra wep open-system], and sz-atc [infra aes wpa2-psk]. To the right of this list is a 'Search' button. Below the list, there are several configuration options: 'Using Wireless Lan' with a checked checkbox, 'SSID' with a text input field containing 'ace', 'Network Type' with a dropdown menu set to 'Infra', 'Safe Mode' with a dropdown menu set to 'TKIP', 'Encryption' with a dropdown menu set to 'WPA-PSK', and 'Key' with an empty text input field.

Figure5.1

Click the icon "Search" to scan the wireless network in this environment automatically.

Using Wireless LAN: Set WiFi ON/OFF.

SSID: the ID of Wireless network, it should be the same SSID as the connected WiFi router.

Network Type: Two modes:

1. **Infra** (Infrastructure Mode) , if using normal AP, choose Infra mode..
2. **Ad-Hoc** Mode. If using point-to-point transmission, choose Ad hoc mode.

The factory setting is Infra.

- **Encryption:** WEP, TKIP, AES optional.
- **Authentication: WEP:** Open System or Share Key. **TKIP (AES):** WPA-PSK or WPA2-PSK.
- **Select Key:** Choose the channel of WEP share Key.
- **Key:** Input the key the same as the settings in your router.

All the WiFi encryption mode should be the same as WiFi router which connected, and different encryption has different authentication menu.

4.8. UPNP

Click "UPNP" to enter the interface:

The screenshot shows a single button labeled 'Enable UPNP' with a green checkmark icon to its right, indicating that the UPNP function is currently enabled.

Figure5.2

Enable UPNP: Set UPNP function ON/OFF.

Select it to enable UPNP, then the camera will do port forwarding automatically.

It's helpful for using DDNS, if your router support UPNP, then you no need do port forwarding in router.

NOTE: Here UPNP only for port forwarding now. It has much relation with security settings of your router, make sure the UPnP function of router is ON.

ATTENTION: If your router doesn't support UPNP function, it may show error information. So we recommend you do port forwarding manually in your router.

4.10. PTZ Settings

Click “PTZ Settings” to enter the interface:

Figure5.4

PTZ settings means once external pan tilt connected to the device, should set the camera's RS485 communicate protocol the same as the pan tilt, then could control the PTZ remotely.

Protocol: Support PELCO-D、PELCO-P、PTZDSCP、LILIN、MINKING.

Baud Rate: Support 1200, 2400, 4800, 9600, 19200.

Address: It should be the same address of the device connected.

Reversal: Click it to enable.

Mirror: Click it to enable.

4.11. Users

Click “**Users**” to enter the interface:

Serial Number	User	Password	Rights
1	admin	*****	Super Admin
2	v12	***	Administrator
3	abc	***	Operator
4	v	*	Visitor
5			Administrator
6			Administrator
7			Administrator
8			Administrator
9			Administrator
10			Administrator

Figure5.5

Every camera supports 16 users, and every user can be divided into three grades including **Super Admin.**, **Administrator**, **Operator**, **Visitor**.

Super Administrator: Every device has a super administrator, it has the highest permission, can set all the parameters.

Administrator: Lower permission than super administrator, it can set most of the parameters except adding or editing other administrator accounts.

Operator: Lower permission than administrator, can do some operation such as pan/tilt control and set some parameters.

Visitor: The lowest permission, only can view live video, can't control the pan/tilt, parameter settings etc.

4.12. Log

Click “**Log**” to enter the interface:

User	IP Address	Time	Type
admin	192.168.1.85	1970/01/01 08:31:44	Login Out
admin	192.168.1.85	1970/01/01 08:28:12	Set Config
admin	192.168.1.85	1970/01/01 08:17:32	Login In
admin	192.168.1.220	1970/01/01 08:06:08	Login In
admin	192.168.1.220	1970/01/01 08:05:34	Login Out
admin	192.168.1.220	1970/01/01 08:02:28	Login In
admin	192.168.1.220	1970/01/01 08:02:23	Login Out
admin	192.168.1.85	1970/01/01 08:01:03	Login In
admin	192.168.1.27	1970/01/01 08:00:52	Login In
admin	192.168.1.220	1970/01/01 08:00:36	Login In
admin	183.37.229.203	2011/07/13 19:03:08	Set Config
admin	183.37.229.203	2011/07/13 19:02:33	Login In
admin	183.37.229.203	2011/07/13 19:02:22	Login Out
admin	183.37.229.203	2011/07/13 19:01:17	Set Config
admin	183.37.229.203	2011/07/13 19:01:04	Login In
admin	192.168.1.220	2011/07/13 19:00:53	Login Out
admin	192.168.1.220	2011/07/13 19:00:43	Login In
admin	192.168.1.220	2011/07/13 18:59:26	Login Out
root	192.168.1.222	2011/07/13 18:59:26	Power Off
admin	192.168.1.220	2011/07/13 18:57:53	Login In

Figure5.6

Record user information, including account, date, time, visitor IP address etc.

4.13. Date&Time

Click “**Date&Time**” to enter the interface:



Figure5.7

Date Time: Display the current date and time

Time Zone: Set the current time zone

Time Mode: Can choose PC Time or NTP Time.

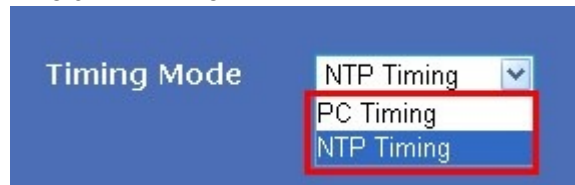


Figure5.8

NTP Server: Choose the relevant NTP sever when set time mode as NTP Time.

4.14. E-mail(SMTP)

Click “E-mail(SMTP)” to enter the interface:

Enable E-mail ☒

Addresser

Outbox

Inbox1

Inbox2

Inbox3

SMTP Server ☐ SSL Login

SMTP Port

Auth User ☒

SMTP User

SMTP Password

Please save at first,and then test

Update Save Test

Figure5.9

Enable E-mail: Set e-mail function ON/OFF.

Addresser: Set sender's name.

Outbox: Set sender's email address.

Inbox: Set receiver's email box. (support the most 3 emails simultaneously)

SMTP Server: The sender's SMTP server.

SMTP Port: The sender's SMTP Port, usually is 25, some SMTP server have its own port, such as the smtp port for Gmail is 465.

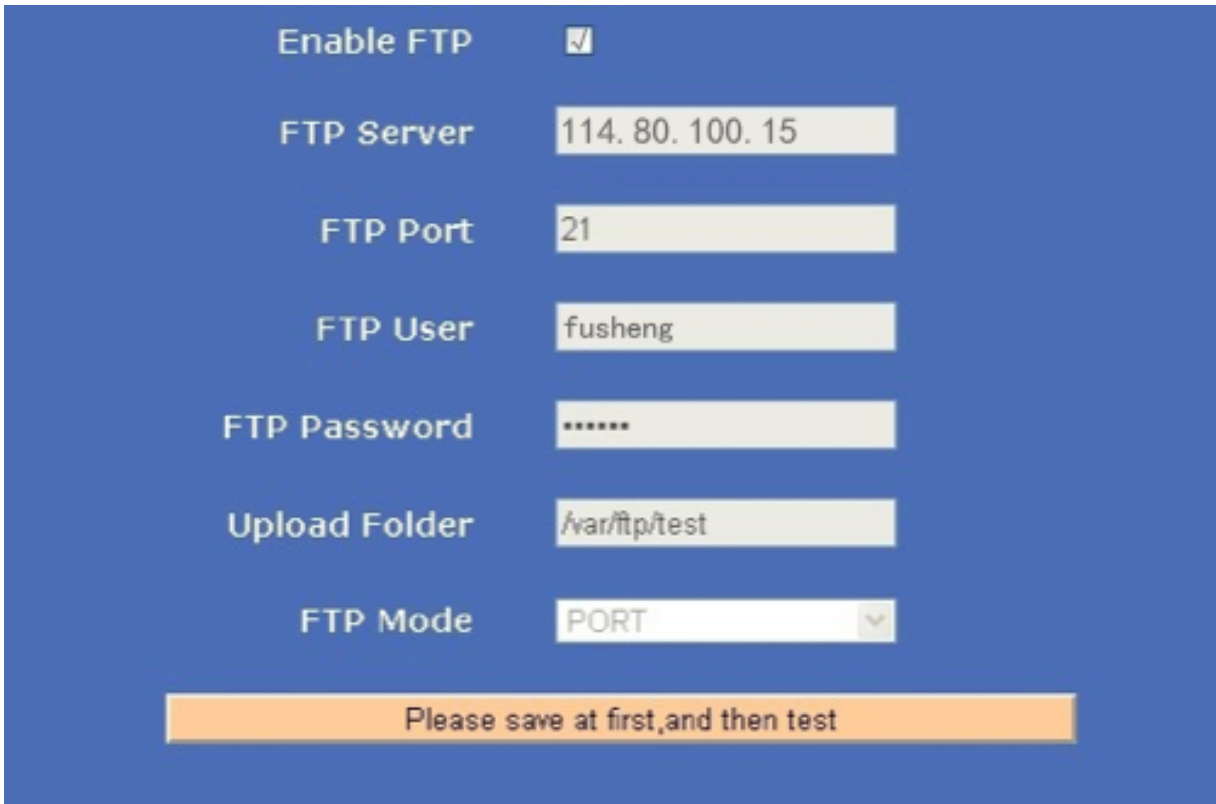
Auth User: Verify the user settings

SMTP User: Set sender's user name.

SMTP password: Set sender's password.

4.15. FTP

Set FTP service, Snapshots will be delivered to appointed FTP server when alarmed.
Click “FTP” to enter the interface:



Enable FTP ☒

FTP Server 114.80.100.15

FTP Port 21

FTP User fusheng

FTP Password *****

Upload Folder /var/ftp/test

FTP Mode PORT

Please save at first, and then test

Figure6.0

Enable FTP: Set FTP function ON/OFF.

FTP Server: Set FTP server address.

FTP Port: Set the port of FTP server, default is 21.

FTP User: Set the user name of FTP server.

FTP Password: Set the password of FTP server.

Upload Folder: Set the path of remote FTP server. Make sure that the folder you plan to store images exists. For camera couldn't create the folder itself. Also, the folder must be erasable.

FTP Mode: It supports standard (PORT) mode and passive (PASV) mode.

Click save to submit, click test to check the settings.

NOTE: Only alarmed, there will be 3 snapshots sent to the FTP server every 1 second.

4.16. SD Card

Click “SD Card” to enter the interface:

Device Name	<input type="text"/>
Total Size	0 KB
Available Space	0 KB
Status	Pullout
<input type="button" value="Format"/> <input type="button" value="Update"/>	
<hr/>	
Enable Auto Overwrite	<input type="checkbox"/>
Enable Pre-Record	<input type="checkbox"/>
Pre-Record Time	3 Second
Record stream	Main-Stream
<input type="button" value="Save"/> <input type="button" value="Update"/>	

Figure6.1

Device Name: Display the name of SD card.

Total Size: Display the total size of SD card

Available Space: Display the free space of SD card

Status: Display the state of SD card.

Format: Click it to delete all data and format the SD card. (All data will be lost if formatted)

Enable Auto Overwrite: Set SD card auto cover when it's full.

Enable Pre-record: Set Pre-recording function(Record the video before alarm triggered).

Pre-record Time: Set the Pre-recording time, could be from 1 to 6 seconds.

Record Stream: Choose the stream here.

4.17. System

Click “**System**” to enter the interface:

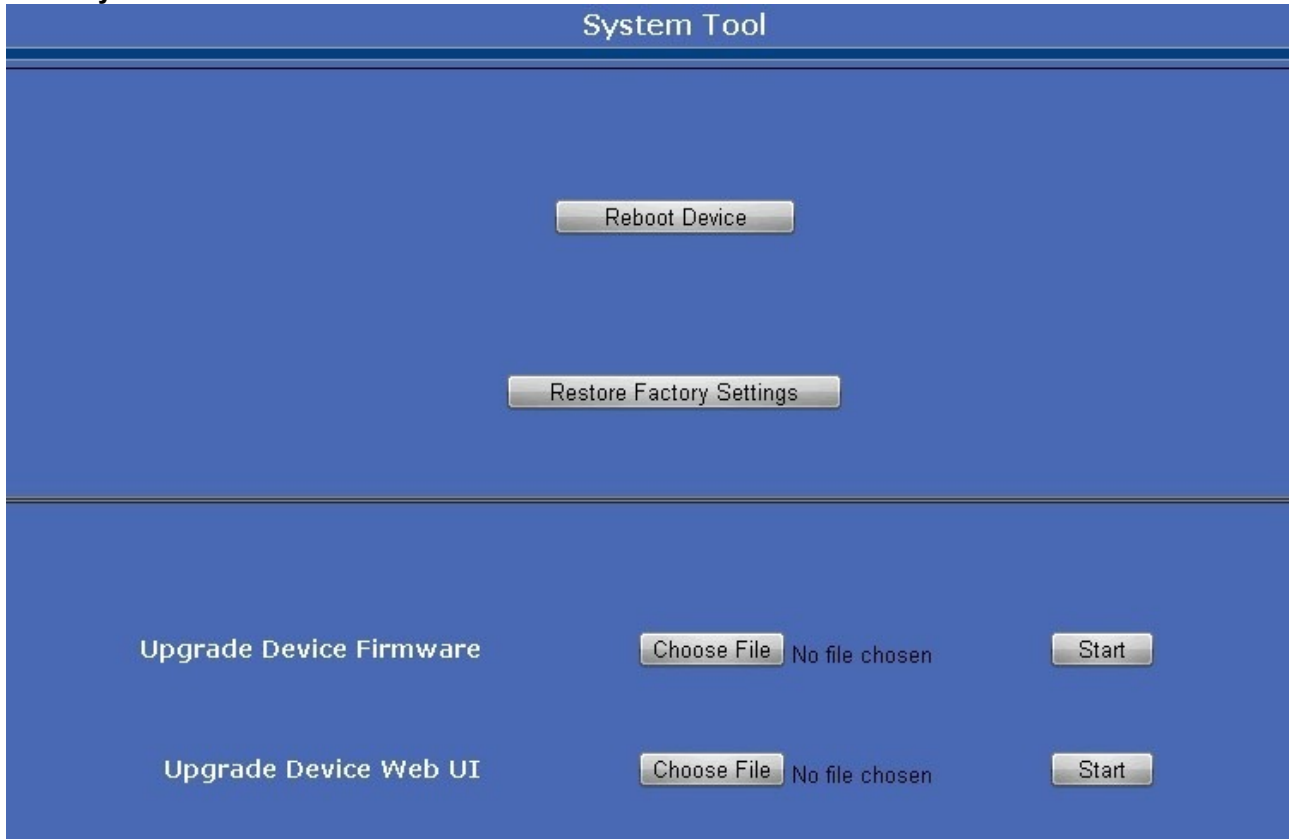


Figure6.2

- **Reboot Device:** Click to Reboot the camera.
- **Restore Factory Settings:** Click it, all the parameters will be back to factory settings.
- **Upgrade Device Firmware:** Click “**Choose File**”, choose the correct system file for upgrade, then click “**Start**”.
- **Upgrade Device Web UI:** Click “**Choose File**”, choose the correct Web UI file for upgrade, then click “**Start**”.

NOTE: Please use the correct upgrade file, must keep the power on when upgrading, wired mode suggested, because wrong operation or incorrect upgrade file maybe damage the device.

5. FREQUENTLY ASKED QUESTIONS

1. I have forgotten the administrator username and/or password

There is a [RST] button on the rear panel, keep the power on, hold the reset button for 10 seconds, it will restore back to factory default settings as below:

Username: admin

Password: admin

NOTE: Please don't press **RST** button if without professional guide.

2. The video is not smooth

Possible reason 1: The frame rate value is too small.

Solution: Increase the frame rate value.

Possible reason 2: Too many users are connecting to the device.

Solution: Close some connection or reduce the video frame rate.

Possible reason 3: Network bandwidth is too low, lots of lost packets.

Solution: Reduce the video frame rate or video compression bit rate.

3. Fail to visit IP camera via browser

Possible Reason 1: Network is disconnected.

Solution: Connect your PC to network, check whether the network works well or not. Check whether the cable problem, or network problem caused by PC virus.

Possible reason 2: IP Address has been occupied by other devices.

Solution: Stop the connection between IP camera and network, connect the IP camera to PC directly, reset IP address according to the proper operations recommended.

Possible reason 3: IP addresses are in different subnets.

Solution: Check IP address, Subnet masking and Gateway.

Possible reason 4: Physical address of network conflict with IP camera.

Solution: modify the physical address of IP camera.

Possible Reason 5: Web port has been modified.

Solution: Contact Network Administrator to obtain related information.

Possible Reason 6: Unknown.

Solution: Press RESET to restore to factory settings then connect it again, the default IP address is 192.168.1.155, subnet mask is 255.255.255.0

4. The color of image is abnormal (Green or other color)

Sometimes the IP camera images cannot be displayed properly because of different graphics cards, the images appears to be green or other colors, then you should run the programme "Config.exe" from the downloaded OCT files.

(or run C:\windows\system32\Config.exe) to set the following parameters of display buffer: auto-detection, used display card memory or system memory, then run IE , connect IP camera again.

5. There is no voice while monitoring

Possible Reason 1: No audio input connection

Solution: Check audio connection of the host

Possible Reason 2: the relative audio option of IP camera is OFF.

Solution: Check audio parameter settings to see if you have set the audio option ON, but without external audio input.

6. Image processing doesn't work properly

Possible Reason 1: System problem, DirectX function is disabled, which will cause slow display of images and abnormal color.

Possible Reason 2: Hardware problem, graphics card doesn't support image acceleration and hardware zooming functions. (For hardware issue, the only solution is to change the graphics card)

Solution: Install DirectX image driver, then click "**Start**">"**Run**">input "**dxdiag**", set enable "**DirectDraw Acceleration**" "**Direct3D Acceleration**" "**AGP Texture Acceleration**" functions.

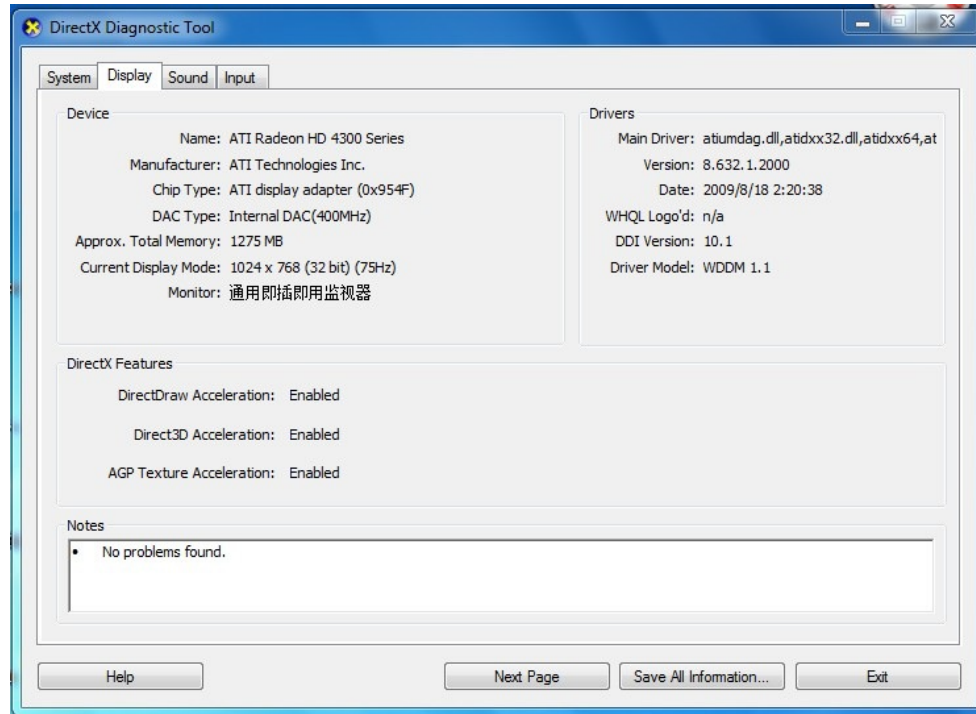


Figure6.3

Note: If you are unable to do it, it means your DirectX is not installed properly or hardware doesn't support this function.

7. Fail to use DDNS

Possible Reason 1: The PC or IP Camera can't connect to the internet.

Solution: Check the internet connection and settings.

Possible Reason 2: Port forward is not set in router.

Solution: Set the port forward of extranet in router correctly.

For example, if IP Camera address is: 192.168.1.100, Media port is 38401, Web port is 85, factory DDNS is <http://test.aipcam.com>. Use TP-Link router as below:

(1) Login the router.



(2) Choose "Forwarding", select "Virtual Servers"

(3) Click the Add New button, pop-up below:

Add or Modify a Virtual Server Entry

Service Port:

(XX-XX or XX)

IP Address:

Protocol:

Status:

Common Service Port:

Figure6.4

Fill the service port as 85, IP address as 192.168.1.100, click Save.

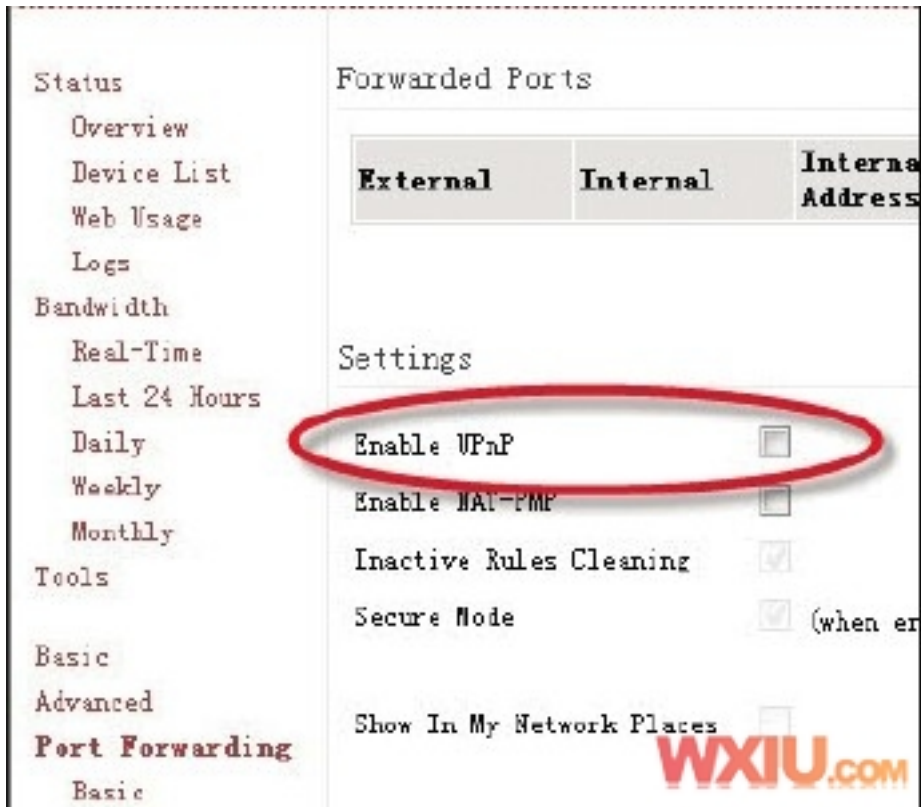
(4) Repeat the step 3, will pop-up the window again, fill the service port as 38401, IP address as 192.168.1.100, then save.

(5) Then check the "Device Info" –"DDNS Status",

will show DDNS: <http://test.aipcam.com:85> , input this link in IE, then can visit this camera remotely.

6、Remote Settings

After logging in the router, find the "forwarding rule" under the "UPnP", enable "UPnP".



In this case the camera port 81, log into the router, add a new entry in the virtual server, fill in the camera's LAN IP and port.

The image shows two screenshots of a router's web interface. The top screenshot shows the 'Internet' tab selected, with 'Virtual Server' highlighted in the left sidebar. The main content area shows the 'Virtual Server' configuration page with instructions: 'Configure port ranges to be forwarded to internal computers in your network. By these means, internal services and servers are accessible from the outside.' Below this is a section 'Add a new rule' with a '+ Add' button. The bottom screenshot shows the 'Virtual Server: Rules - Edit' page. It has a title bar 'Virtual Server: Rules - Edit' and a 'Help' link. Below the title bar is a instruction: 'Define a new rule for your Virtual Server and apply it to a local IP address.' The main area is titled 'Rules' and contains a form with the following fields: 'Rule Name' (Sip1211), 'Protocol' (TCP), 'Start Port' (81), 'End Port' (81), 'Port Map' (81), and 'IP Address' (192.168.1.222). At the bottom right are two buttons: 'X Cancel' and '✓ Save'.

Tips:

CTT, mobile network, only on the same network camera remotely, between different networks (telecommunications access device under CTT) is not remote link;
 Residential broadband and multi-level routing is not set up remote, network cameras only pick in the first route, we can achieve remote;
 If you use fiber-optic network, fiber-optic routes must be super cat telecomadmin login user name and password, set up a virtual server in fiber routing cats. Recommend users to use third-party router bridging fiber routing cat, by a third party router dialing.

7. OBTAINING TECHNICAL SUPPORT

While we hope your experience with the IP CAMERA network camera is enjoyable and easy to use, you may experience some issues or have some questions that this User's Guide has not answered. Please contact your reseller and ask for help firstly, if they could not resolve your issue, please contact our company.

If your cameras do not support some special functions showed in the manual, please contact our technical support team to obtain the latest Firmware and WEB UI file for doing upgrade.

NOTE: Some old version cameras can't be upgraded to the latest version, that's not only the software difference, but also the hardware difference. If you can't make sure of it, please contact with our technical support team(tech@apexis.com.cn) directly.

8、iSeeu Monitoring for IOS

Android monitoring

To download and install the software to your phone, watch approach and iPhone.

<http://www.kaicong.net/download/ZhiYunForAndroid.apk>

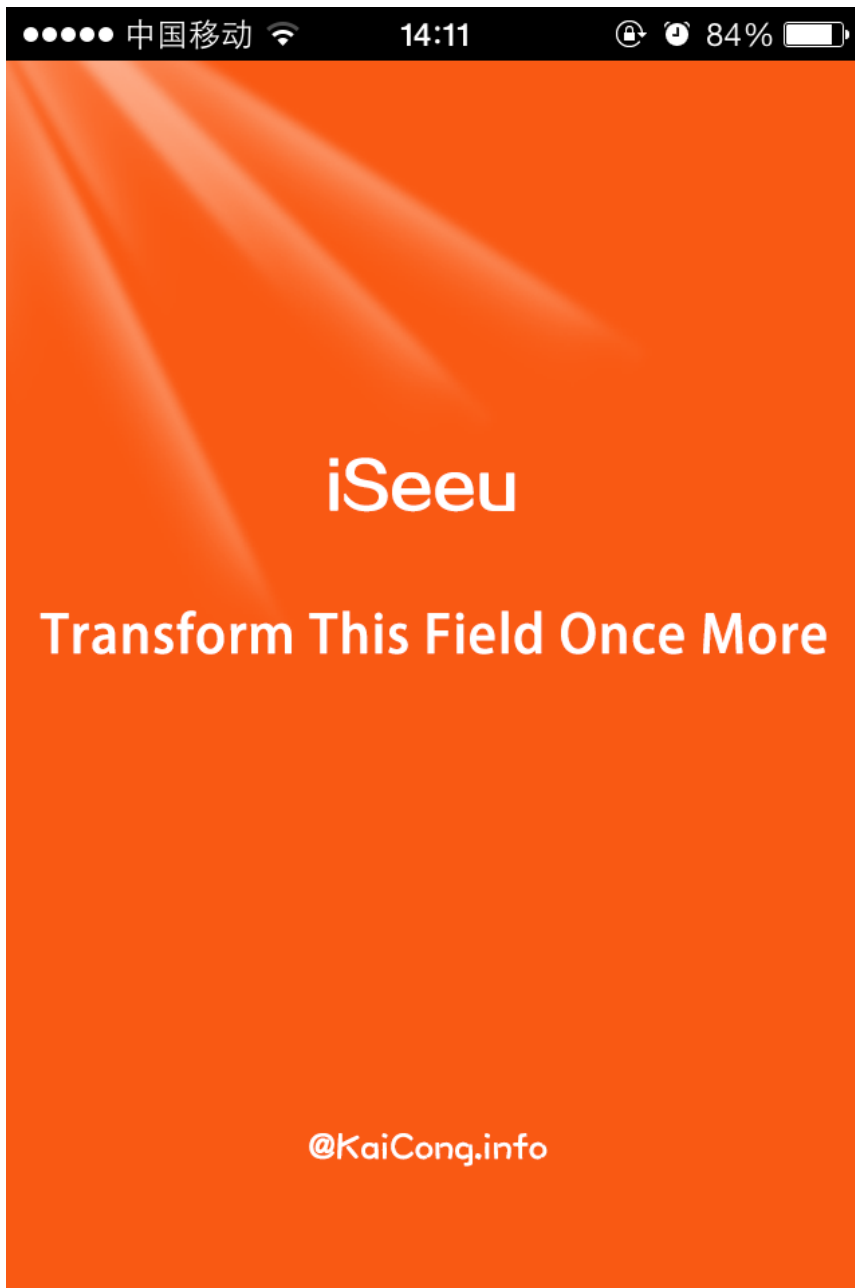
iPhone monitoring

Search in the Apple App Stores "iSeeu" and download

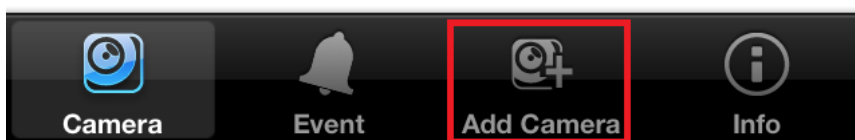
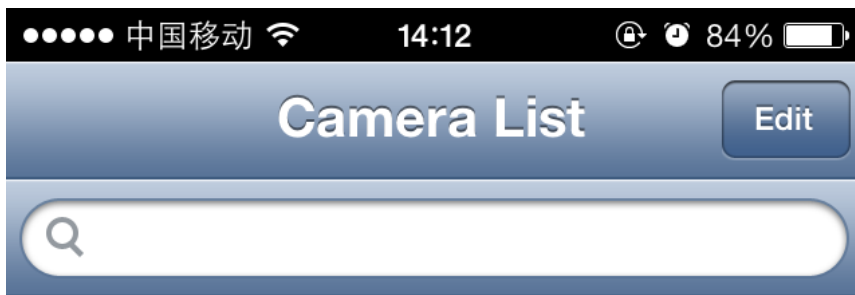


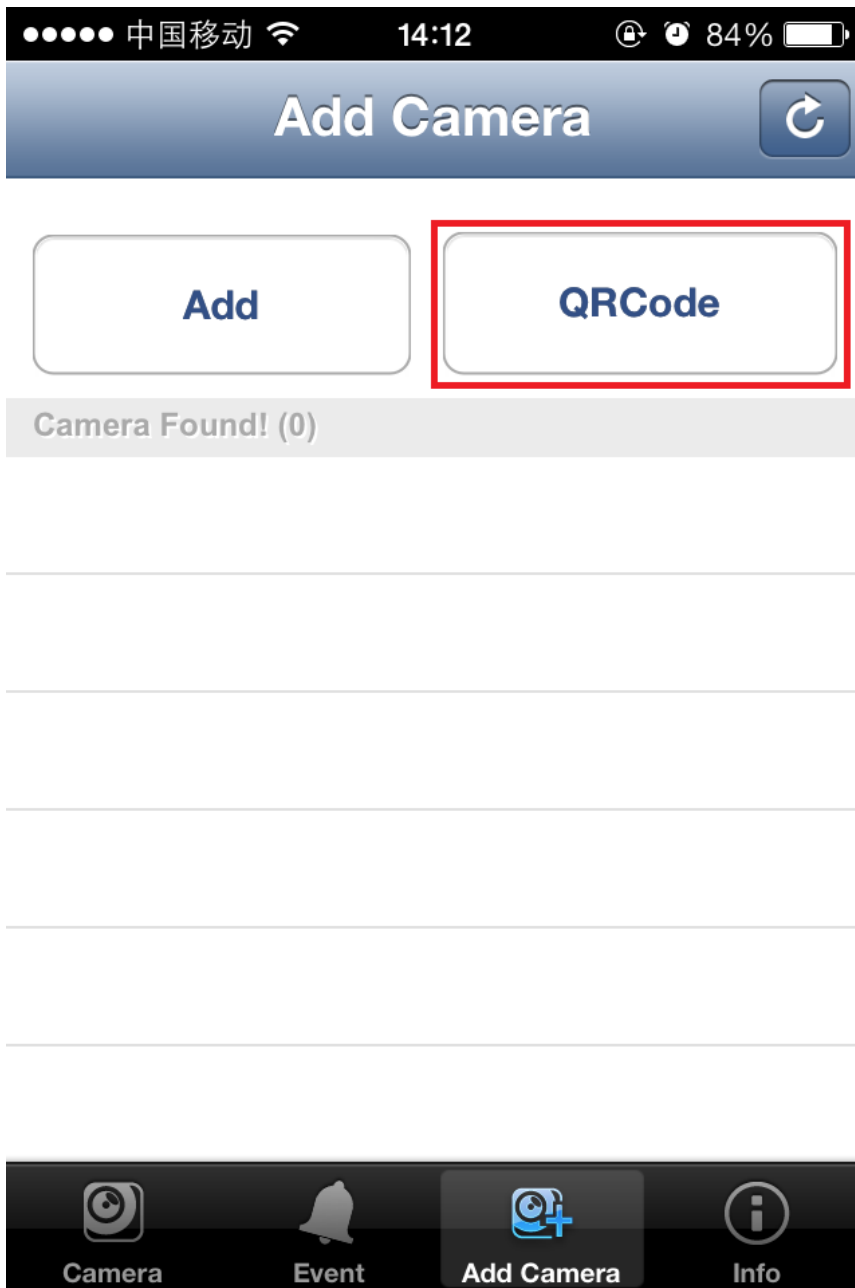
After the download is complete, enable the software.





Into the camera list, click on the "Add Camera".

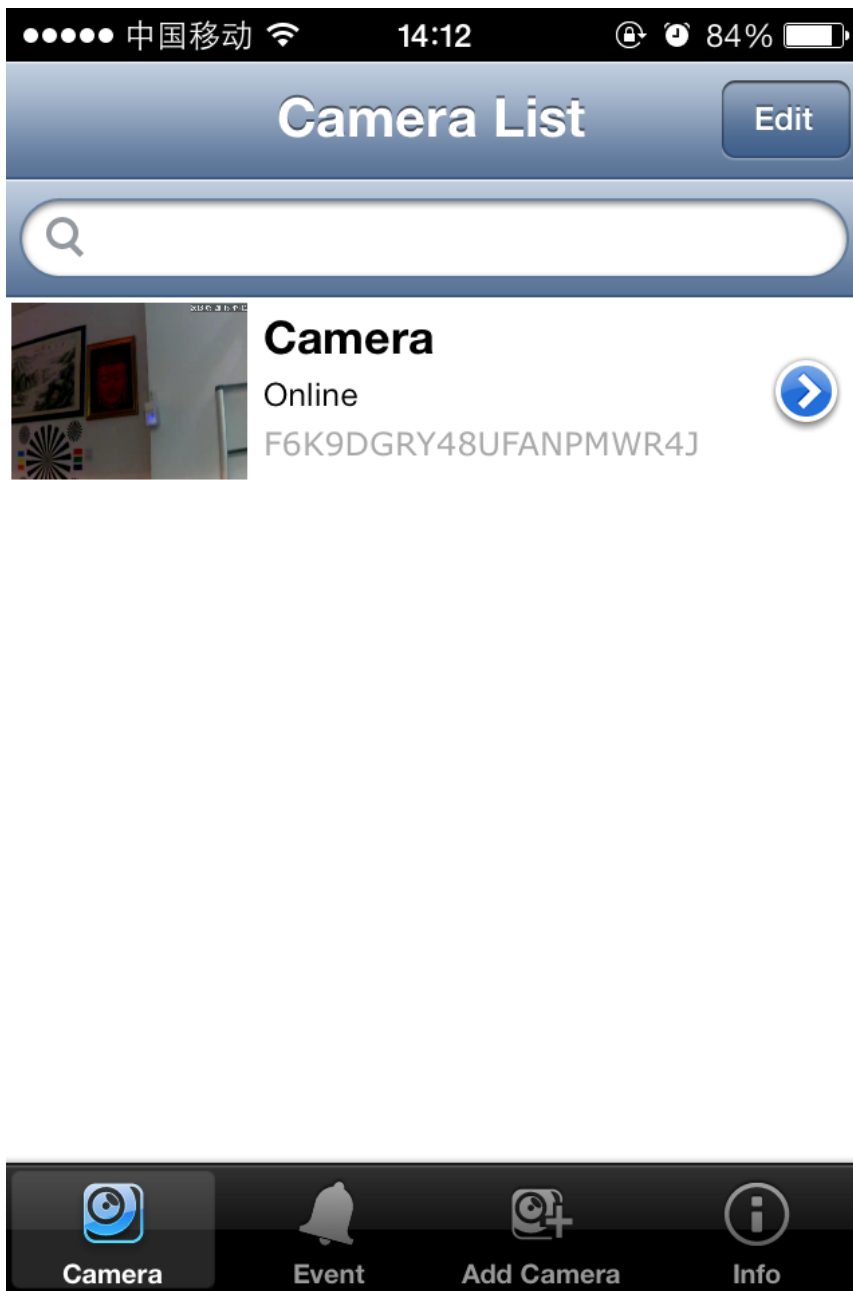


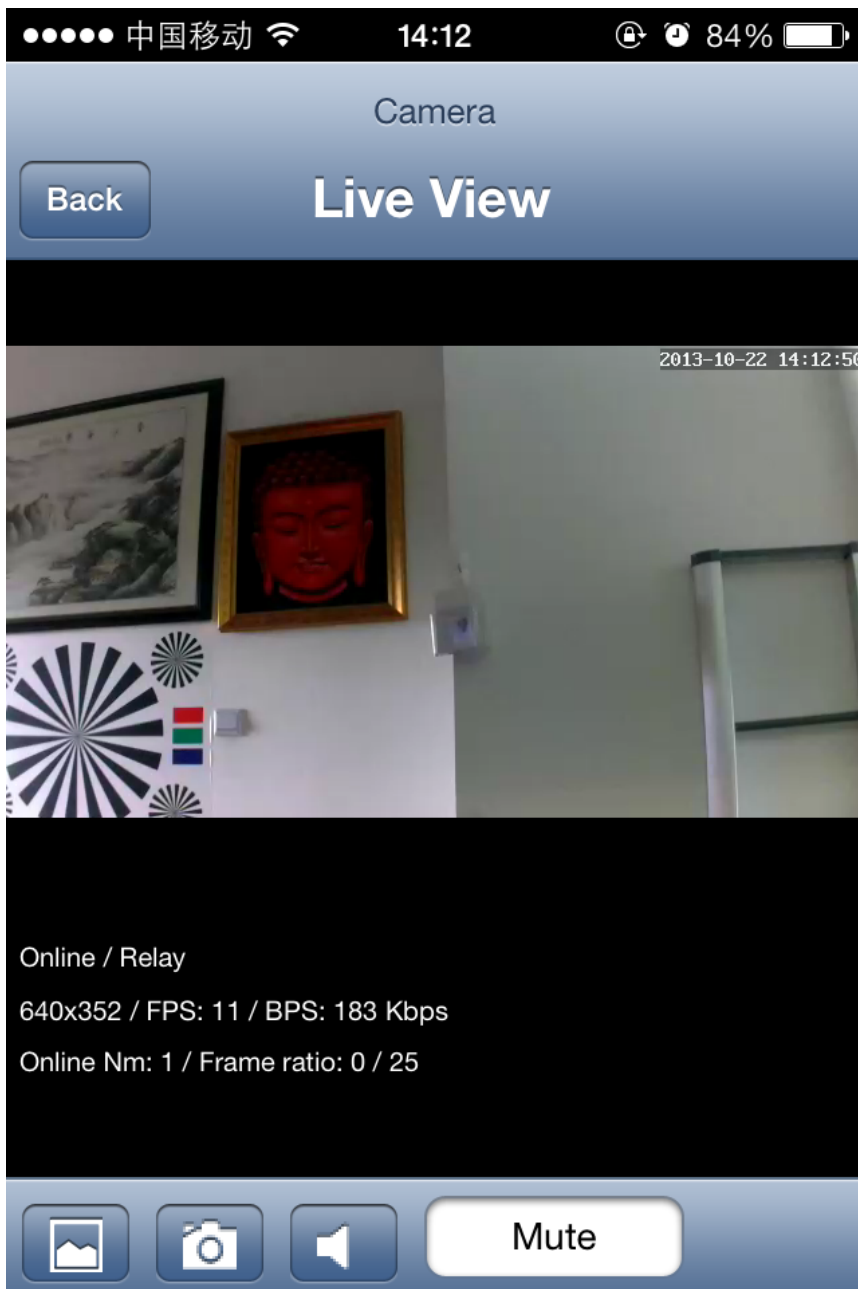


Scanning machines at the two-dimensional code, add the device.



Select Add cameras to be monitored.





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